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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,321	11/03/2003	Shigeru Hanzawa	811_037	1290
25191	7590 01/24/2005		EXAMINER	
BURR & BROWN			XU, LING X	
PO BOX 7068 SYRACUSE.	NY 13261-7068		ART UNIT PAPER NUMBER	
,			1775	
			DATE MAILED: 01/24/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	10/700,321	HANZAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ling X. Xu	1775			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address	•		
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of tod will apply and will expire SIX (6) M tute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communicatio ABANDONED (35 U.S.C. § 133).	on.		
Status					
1) Responsive to communication(s) filed on 5/2 2a) This action is FINAL. 2b) The sum of	his action is non-final. vance except for formal ma	•	s		
Disposition of Claims		•			
4) Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdenset is/are withdenset is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subject to restriction and are subject to by the Examination is objected to by th	rawn from consideration. d/or election requirement. iner. is/are: a) accepted or leading accepted or leading accepted in abey	vance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	Landing. Note the attach	ed Office Action of form FTO-192.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a lie	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/O Paper No(s)/Mail Date <u>5/20/2004</u>. 	Paper N	w Summary (PTO-413) lo(s)/Mail Date Informal Patent Application (PTO-152)			

DETAILED ACTION

Drawings

1. Color photographs and color drawings are acceptable only for examination purposes unless a petition filed under 37 CFR 1.84(a)(2) is granted permitting their use as acceptable drawings. In the event that applicant wishes to use the drawings currently on file as acceptable drawings, a petition must be filed for acceptance of the color photographs or color drawings as acceptable drawings. Any such petition must be accompanied by the appropriate fee set forth in 37 CFR 1.17(h), three sets of color drawings or color photographs, as appropriate, and, unless already present, an amendment to include the following language as the first paragraph of the brief description of the drawings section of the specification:

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

Color photographs will be accepted if the conditions for accepting color drawings have been satisfied.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 rejected under 35 U.S.C. 102(b) as being anticipated by Soga et al. (JP-2002-293657, translation included).

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With respect to claims 1 and 5, Soga discloses an inorganic porous composite comprising a porous bone structure having open pores and a frame component containing a particulate material (embodiment [0003]).

Soga also discloses that the inorganic porous composite comprising open pores including the particulate material dispersed in the frame phase and the pore size becomes smaller with the addition of the particulate material (embodiments [0003] and [0011]). Accordingly, Soga discloses the inorganic porous product has the particles dispersed and exposed to the wall surfaces of the porous frame phase as claimed. The wall surfaces of the porous frame phase are considered facing the open pores.

Soga further discloses the pore sizes and shapes distribution are made uniform (abstract and embodiments [0002]-[0003]) by the same sol-gel transition accompanied by phase transition as claimed (embodiment [0003]).

With respect to claim 2, Soga discloses the open pores having a diameter of 100 nm or large.

With respect to claims 3-4, Saga discloses the particulate material may be metallic oxide or organic macromolecule ("polymer") and/or metal with particles diameter of 5 nm or larger and 100um or smaller (embodiment [0010]).

Soga meets all the limitations of claims 1-4.

Claim Rejections - 35 USC § 102/103

3. Claim 6 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Soga et al.

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As stated above, Soga discloses the same inorganic porous composite as recited in claim 1.

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Soga does not specify the particles dispersed in the porous frame phase having an average aspect ratio less than 1.5. However, Soga discloses the pore sizes and shapes distribution are made uniform (abstract and embodiments [0002]-[0003]) with the particles dispersed on the porous frame phase. In order to made the pore shapes of the particle to be uniform, the average aspect ratio of the particle should be as close to 1.0 as possible.

Therefore, it would have been obvious to one of ordinary skill in the art to use the particle for dispersion with an average aspect ratio as close to 1.0 as possible or less than 1.5 in order to homogenously disperse the particles on the porous frame phase and obtain the inorganic porous structure with uniform pore shape and pore sized distribution, as suggested by Soga (abstract).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling X. Xu whose telephone number is 571-272-1546. The examiner can normally be reached on 8:00 - 4:30 Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah D. Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ling X. Xu Examiner

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